

**SIMULTANEOUS ALLOCATION OF STORAGE
FOR MULTIPLE LOGICAL VOLUMES**

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ABSTRACT OF THE DISCLOSURE

10 A method, system, computer system, and computer program product to allocate
storage resources among multiple logical volumes. In response to a request to perform a set
of operations on multiple logical volumes, a set of allocations of available storage space for
performing the set of operations is made. At the time of identifying the storage regions to use
for each allocation, the remaining operations and the storage regions that would be available
for performing the remaining operations are examined. The rules for implementing each of
the logical volumes can be evaluated as part of this examination. If it is apparent that one of
15 the remaining operations will fail based upon a particular set of allocations, space allocated
for a previous operation can be de-allocated and alternative allocations can be examined to
find a set of allocations that enable the request to be performed successfully.